| POSITION                  | INITIALS | ID NO. | DATE     |  |  |  |  |  |
|---------------------------|----------|--------|----------|--|--|--|--|--|
| FEE DETERMINATION         | Smc      |        | 7/6/0    |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       | ال       |        | 9/12/00  |  |  |  |  |  |
| FORMALITY REVIEW          | 14).12   | 869    | 10-06-00 |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          |        |          |  |  |  |  |  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | Ν | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| Claim             | m Date    |           |               |              |             |              | 7        | Claim Date     |              |           |          |          |          |          |          |          |          |          | Cla      | im       | Date     |              |          |               |          |              |          |               |                |          |          |               |  |  |
|-------------------|-----------|-----------|---------------|--------------|-------------|--------------|----------|----------------|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|----------|---------------|----------|--------------|----------|---------------|----------------|----------|----------|---------------|--|--|
|                   | 12        | T         | $\overline{}$ | Т            | T           | T            |          | П              | Т            | Т         | ┪        | _        |          |          | Т        | T        | Т        | T        |          | T        | T        |              | 1 [      |               | _        |              | T        |               |                |          |          | T             | T                                      | ٦  |
| Final<br>Original | 31        | 5         | <u> </u>      | -1           |             | 1            | - 1      |                |              |           | ŀ        | _        | Original | İ        |          |          |          | İ        |          |          |          | 1            |          | _             | Original |              | - 1      |               | 1              |          |          |               |  | - 1  |
| Final             | 6         | 1         | •             |              |             |              |          |                | - 1          |           |          | Final    |          |          | 1        |          |          | 1        |          |          | -1       |              | li       | Final         | Ĕ        |              |          |               |                |          |          |               | - 1                                    |  |
| <u> </u>          | 1         | ď         | 4             | 4            | 4           | +            |          | $\dashv$       | $\dashv$     | +         |          | 1        | 54       | +        | +-       | +        | ╁        | +-       | +        | +        | +        | +            | -        | -             | 101      | $\vdash$     | $\dashv$ | $\dashv$      | _              | +        | -        | +             | +                                      | $\dashv$   |
| 9                 | ~         | _         |               | $\downarrow$ | 1           | 4            | _        | _              | _            | _         | _        | <u> </u> | 51       | +        | -        | 4-       | +        | -        | +        | +-       | +        | +            | 1        |               |          | $\vdash$     | $\dashv$ | $\dashv$      | +              | $\dashv$ | +        | +             | +                                      | $\dashv$   |
| 2                 | J         | 1         |               |              |             |              |          |                | _1           |           |          |          | 52       |          |          | 1        | 1        | 4        | _        | $\perp$  |          | 4            | 1 1      | -             | 102      | $\vdash$     | -        | $\rightarrow$ | _              | -        | _        | 4             | 4                                      | _  |
| 3                 | 0         |           | ,             |              |             |              |          |                |              |           |          |          | 53       |          |          |          |          | -        |          | 1_       |          |              |          |               | 103      |              |          |               |                |          | $\perp$  |               | $\perp$                                |  |
| , 4               |           | ٦,        | -             | 十            | 十           |              | $\neg$   | T              | $\neg$       |           | 1        |          | 54       |          | Т        | Т        | T        | T        |          | Т        |          |              | ] [      |               | 104      |              |          |               |                |          |          | ┙             | 丄                                      |  |
| 2 5               |           |           |               | +            | +           | _            | ┪        |                | $\neg$       |           |          |          | 55       |          |          |          | 1        | $\top$   | T        | Т        |          |              | 1 [      |               | 105      |              |          |               |                |          |          | Т             | Т                                      |  |
| 6/                |           | ٠,        | 1             | +            | $\dashv$    | - †          | $\dashv$ | _              | 寸            | $\neg +$  | -        |          | 56       | +        | +        | +        | $\top$   | 十        | $\top$   | T        |          | 1            | 1 1      |               | 106      |              |          |               | $\neg$         | $\neg$   |          | 丁             | $\neg$                                 |  |
| 7                 | +         | +         | +             | +            | -+          | $\dashv$     | -        |                | $\dashv$     | +         | -        | -        | 57       | +        | +        | +        | +        | +        | ╅        | +        | +        | +            | 1 1      |               | 107      |              | $\neg$   | 7             | $\neg \dagger$ | _        |          | +             | $\top$                                 |  |
|                   | Н         | 41        | ╟┼            | +            | +           | -+           | -        | $\dashv$       | -            | -+        | -        |          | 58       | +        | +        | +        | +-       | +        | +        | +        | +        | +-           | 1        |               | 108      | Н            |          | $\dashv$      | +              | -+       | $\dashv$ | +             | +                                      | $\dashv$   |
| 8                 | +-+       | 1         | 11            | 4            | -           | -            | _        | _              | _            | -+        | _        | <u> </u> |          | +        | -        | +        | +        | -        | +        | +        | ╁        | +            | 1 1      |               |          | $\vdash$     | $\dashv$ | $\dashv$      | $\dashv$       | $\dashv$ | +        | +             | -+                                     | $\dashv$   |
| 9                 |           | ┸         | Ш             |              | $\perp$     | _            |          |                | _            |           |          |          | 59       | 4        |          |          | 4        | 4        | $\perp$  | 4        | -        | -            | 1 1      | $\overline{}$ | 109      | $\vdash$     | $\dashv$ |               | $\dashv$       | +        | -+       | +             | -+                                     | _  |
| 10                |           | 小         |               |              |             |              |          |                |              |           | ┙        |          | 60       |          | _        |          | $\perp$  | $\perp$  |          | _        |          |              | 1 1      | _             | 110      | $\sqcup$     | _        |               | -1             | 4        | -        | $\dashv$      | -                                      |  |
| 11                | ठ         | 1 3       | 5             |              | Т           |              |          |                |              |           |          |          | 61       |          | -        | -        |          |          |          |          |          |              | J L      |               | 111      |              | -        |               |                | _        |          | $\perp$       | _                                      |  |
| 12                | _         | 1         | $\sqcap$      | _            | $\dashv$    | _            |          | $\neg$         |              |           | $\neg$   |          | 62       | T        | Т        | T        | T        | T        | T        | T        | Τ        |              | ] [      |               | 112      |              |          |               |                |          | $\perp$  |               | ┙                                      |  |
| 13                |           | +         |               | +            | $\dashv$    |              | $\dashv$ | _              | $\neg$       | $\dashv$  | $\neg$   |          | 63       | $\top$   | $\top$   | 1        | $\top$   | 1        | 1        | $\top$   | $\top$   | T            | 1 1      |               | 113      |              |          | $\Box$        | T              | T        | $\top$   | T             | T                                      |  |
| 14                |           | +         | ╁             | +            | +           | +            |          | $\dashv$       | $\dashv$     | +         | $\dashv$ |          | 64       | 十        | -        | +        | +        | +        | +        | +        | $\dashv$ | 1            | 1 1      | _             | 114      | П            |          |               |                | $\dashv$ | $\neg$   | 丁             | $\neg$                                 | _  |
|                   | -         | ₩         | ₩             | +            | +           | -            |          | -              | $\dashv$     |           | $\dashv$ | -        | 65       | +        | +        | +        | +        | +        | +        | +        | +        | +-           | 1 1      | _             | 115      | $\vdash$     | $\dashv$ | -             | _              | 7        | +        | +             | $\dashv$                               |  |
| 15                | O         | c         | 4             | 4            | 4           | _            | _        |                | $\dashv$     | $\dashv$  | $\dashv$ | <u> </u> |          | -+       | +        | +-       | +-       | +        | +        | +        | +        | +            | 1 }      |               | 116      | Н            | $\vdash$ |               | $\dashv$       | +        | +        | +             | $\dashv$                               | _  |
| (16               | <u>}~</u> |           | 4             | 1            | _           |              |          | $\rightarrow$  | _            | _         | _        | L        | 66       | 4        | 4        | 4        | $\bot$   | -        | -        | -        | -        | +            | -        | _             |          | -            |          | -             |                | -+       | +        | -+            | $\dashv$                               | _  |
| 17                |           | ⇃         | 1             | _            |             |              |          |                |              | Ш         |          |          | 67       | $\perp$  | $\perp$  | $\perp$  |          | $\perp$  | $\perp$  | $\perp$  | $\perp$  |              | 1        |               | 117      | 1_           | <u> </u> |               | _              | _        | _        | $\rightarrow$ |  |  |
| 18                | 0         | <b>)</b>  | 5             |              |             |              |          |                |              |           | -        | - [      | 68       |          |          |          |          |          |          |          |          |              |          |               | 118      | L            |          |               |                | _        | _        | _             | _                                      |  |
| 19                |           | 1         | d             | $\forall$    | ヿ           |              |          |                |              |           | ヿ        |          | 69       | T        | П        | T        | Т        | Т        |          | T        | Т        |              | ]        |               | 119      |              |          |               |                | - 1      |          |               |  |  |
| 20                |           | Η.        | 3             | $\dashv$     | +           | $\dashv$     | _        | $\vdash$       |              | $\vdash$  | -        |          | 70       | +        | +        | $\top$   |          | +        | $\dashv$ | $\top$   | $\top$   | $\top$       | 1        |               | 120      | $\vdash$     |          |               |                |          |          | П             |  |  |
|                   |           |           | 7             | _            |             | _ }          |          | $\vdash$       |              | $\vdash$  |          | -        | +        | $\dashv$ | -        | +        | +        | +        | +        | +        | +        |              | -        | -             | 121      | +            | -        | -             | $\dashv$       | -        |          | $\dashv$      | -                                      | Г  |
| 21                | -         | 7         | *             | _            | _           | _            |          | Ш              |              | $\sqcup$  | _        | _        | 71       | _        | 4        | +        | +        | +        | +        |          | -        | $\dashv$     | -        | ⊢             |          | +-           | -        |               |                | $\dashv$ | -        | $\dashv$      | $\dashv$                               | <u> </u>   |
| 22                |           | LL.       | <b>1</b>      |              |             |              |          |                |              |           |          | L        | 72       | _        | _        | _        | 1        | _        | _        | _        | _        |              | -        |               | 122      | +            |          | <u></u>       | _              |          | -1       | -             | -                                      |  |
| 23                | 3         | H         | 7             | ŀ            | ~           |              | -        |                |              | i l       |          |          | 73       |          |          | ┙        | $\perp$  |          |          |          |          |              | _        |               | 123      | 1_           | _        |               |                |          |          | _             | _                                      | <u> </u>   |
| 24                | Ī         | 7         |               |              |             |              | -        |                |              |           | $\neg$   |          | 74       |          |          | -        |          | -        |          |          |          |              |          |               | 124      |              |          |               |                |          |          |               |  |  |
| 25                | -         |           | 2             | $\dashv$     |             | _            |          |                |              | $\Box$    | $\neg$   |          | 75       | $\neg$   |          | 1        | T        |          |          |          |          |              | ٦        |               | 125      |              |          |               |                |          |          |               |  | _  |
| 26                |           |           | 귀             | $\dashv$     | 1           |              | -        |                | _            | 1-1       | $\dashv$ |          | 76       | $\neg$   | $\dashv$ | 7        | 7        | $\top$   | $\neg$   | 7        |          |              | 1        | Г             | 126      |              |          | Г             |                |          |          | $\neg$        |  | Γ  |
|                   |           | 2         | ၁             | $\dashv$     |             |              |          | $\vdash$       | -            | ╁╌┧       | $\dashv$ | $\vdash$ | 77       | $\dashv$ | $\dashv$ | +        | +        | +        | $\dashv$ | -        | +        |              | 1        | _             | 127      | 1-           | 1        | _             |                | $\neg$   |          | コ             |  |  |
| 2                 |           | 4         | ≤             | -            |             |              | _        | -              | _            | $\vdash$  | -        | $\vdash$ |          | $\dashv$ | +        | +        | +        | +        | +        | -+       | $\dashv$ | -+-          | $\dashv$ | $\vdash$      | 128      | +            | +        | -             |                | -        |          | $\dashv$      | М                                      | <del>                                     </del> |
| 28                |           | 4         | Ц             | _            | _           |              | L.       | <u> </u>       |              | $\sqcup$  |          | -        | 78       | -        | -        | +        | +        | -        | -        | 4        | -+       | -            | 4        | $\vdash$      |          | ╁            | ╁        | ├             |                | -        | -        | _             | H                                      | ╁╴   |
| 29                | 1         | Ш         | $\prod$       |              |             |              |          | L              | <u> </u>     |           |          | <u> </u> | 79       |          | _        | _        | _        | _        | _        | _        | _        |              | 4        | <u>_</u>      | 129      | ₩            | ├        | -             | ļ              | -        | <b>-</b> | $\vdash$      | ├                                      | ⊢  |
| 30                | 0         | П         | 1             |              |             |              |          | '              |              |           | -        |          | 80       |          |          | . L      |          |          |          |          |          |              | _        | L             | 130      | $\downarrow$ | L        | ┖             |                | <u> </u> | L.       |               | _                                      | 1  |
| 3                 | 1         | 才         | 7             | $\neg$       |             |              |          |                |              |           |          |          | 81       |          |          |          |          |          |          | - [      |          |              |          | L             | 131      |              |          |               | _              |          | _        | $\sqcup$      | _                                      | <u> </u>   |
| 32                |           |           | 0             | _            | _           |              | <u> </u> | $\vdash$       |              | П         | $\neg$   |          | 82       |          |          | 1        |          |          | T        | $\neg$   |          |              | 7        | Г             | 132      |              |          |               |                |          |          |               | Ĺ                                      | L  |
| 3                 |           | _         | $\checkmark$  | -            |             | <u> </u>     | ┢        | -              | ├            | $\forall$ |          |          | 83       |          | _        | +        | 1        |          | _        |          | •        |              | 7        |               | 133      |              |          | Π             |                |          |          |               |  |  |
|                   |           | 4         | Ť             | $\dashv$     |             | -            | $\vdash$ | ├              | ├-           | $\vdash$  |          | -        | 84       | $\dashv$ |          | $\dashv$ | +        | +        |          | -        |          | +            | -        | -             | 134      | +            | 1        |               | $\vdash$       | Г        |          |               |  | T  |
| 34                | -14       | 4         | à             | , -          | _           |              |          | <del> </del> — | $\vdash$     | +-        |          | $\vdash$ |          | $\vdash$ | -+       | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -+       | +            | $\dashv$ | $\vdash$      | 135      | +-           | +        | +-            | $\vdash$       | ╁        | +-       | _             | $\vdash$                               | 1  |
| 3                 |           | 4         | $\preceq$     | _            |             |              | $\vdash$ | -              | <u> </u>     | $\vdash$  | _        |          | 85       | $\vdash$ | _        | $\dashv$ |          | -        |          |          |          | -            | -        | -             | 136      | +-           | +-       | +-            | +-             | $\vdash$ | ╁        | -             | +-                                     | +  |
| 36                | -         | 0         | 0             |              |             |              | 1_       | $\perp$        | L            | <u> </u>  | $\Box$   | L        | 86       | $\sqcup$ | _        |          | $\dashv$ | _        | $\dashv$ | _        |          | $-\!\!\!\!+$ | 4        | $\vdash$      |          | +            | +-       | +             | +-             | ├        | $\vdash$ | -             | +                                      | +  |
| 3                 |           | ιŢ        | 1             |              |             |              |          |                |              | $\perp$   |          | L        | 87       |          |          |          |          |          |          |          |          |              |          | _             | 137      | $\perp$      | 1_       | 1_            | <u> </u>       | _        | $\perp$  | ــــ          | ـ                                      | +  |
| 31                | В         | П         | 71            |              | _           |              | Π        | Т              |              | T         |          |          | 88       |          |          | Т        |          |          | T        |          | ]        |              |          |               | 138      |              | $\perp$  |               |                | L        |          | <u>_</u>      | 1_                                     | L  |
| 3                 |           | $\dagger$ | }             |              | _           | Т            | t        | 1              | 1            | T         | $\sqcap$ |          | 89       | П        | $\neg$   |          | $\neg$   | $\neg$   |          |          |          |              |          |               | 139      | T            |          |               |                | $\perp$  |          | L             | L                                      | L  |
| 4                 | -         | 5         | כן            |              |             |              | +        | +-             | +            | +-        | Н        | -        | 90       |          | 寸        | $\dashv$ | 7        | _        | $\dashv$ |          | $\Box$   |              | 1        | $\vdash$      | 140      | Τ            | T        |               | Τ              |          | Γ        | Γ             |  |  |
| -                 | -         | 4         | V             | $\vdash$     |             | <del> </del> | -        | +-             | +            | +         | $\vdash$ | -        | _        | $\vdash$ |          | +        | -+       |          |          |          | -        | -            | -        | $\vdash$      | 141      | +            | +        | +-            | -              | 1        | +        | T             | $\top$                                 | +  |
| 4                 | _         | _]        |               |              |             | L_           | _        | L              |              | $\bot$    | Ш        | _        | 91       | Ш        |          |          | _        |          |          |          | Ш        | ⊢-           | 4        | <u>_</u>      |          | +            | +        | +-            | ⊢              | 1-       | +-       | +-            | +-                                     | +  |
| 42                | 2         | Ţ         |               |              |             |              | L        | L              | L            |           |          | L        | 92       |          |          |          |          |          |          |          | Ш        |              | _        | $\vdash$      | 142      | 4            | 1        | 1             | ↓              | +        | +        |               | +                                      | +  |
| 4                 | 3         |           |               |              |             |              |          | Г              | T            |           |          |          | 93       |          | 1        | J        | _ [      | ]        | _ ]      | _ '      |          |              |          | L             | 143      | $\perp$      |          |               | 1              | 1_       | $\perp$  | $\vdash$      | 1                                      | +  |
|                   |           | $\dashv$  |               | П            |             | $\vdash$     | $\top$   | $\top$         | 1            |           |          |          | 94       | П        |          | $\neg$   |          |          |          |          |          |              | 7        | Γ             | 144      | Г            | 1        |               |                |          | L.       | L             | L                                      |  |
| 4                 | =         | +         | _             | $\vdash$     | _           | +            | +        | +-             | +            | +-        | $\vdash$ | $\vdash$ | 95       | Н        |          | +        |          |          | $\dashv$ |          | Н        | $\vdash$     | 7        |               | 145      | 1            | $\top$   | $\top$        | 1              | Τ        | Г        | Γ             |  | Γ  |
| 74                | #         | -         |               | $\vdash$     |             | +-           | +-       | +-             | +            | +-        | -        | -        | 96       | $\vdash$ | $\vdash$ | -+       | $\dashv$ |          | -        |          | -        | +            | $\dashv$ | $\vdash$      | 146      | +            | +        | +             | 1              | 1        | 1        | T             | T                                      | T  |
|                   |           | 4         |               |              | <u> </u>    | ╄            | +        | +              | 1-           | 4         | $\vdash$ | -        |          | <b>├</b> | $\vdash$ |          |          | -        |          |          | -        | +            | $\dashv$ | $\vdash$      | 147      | +            | +        | +-            | +-             | +        | T        | t             | +                                      | T  |
| 4                 |           |           |               | Ш            |             | 1            | $\perp$  | _              | $\perp$      | _         | Ш        | _        | 97       | Ш        |          |          | _        |          |          |          |          | $\vdash$     | _        |               |          | +            | +        | +-            | +-             | +-       | +        | +             | +                                      | +  |
| 4                 |           |           |               |              | Ĺ           | L            |          |                | $oxed{oxed}$ |           | Ш        | L        | 98       |          |          |          | _        | Ш        |          |          | <u></u>  | $\sqcup$     | 4        | L             | 148      | _            | 4        |               | +-             | +-       | +-       | +-            | +-                                     | +  |
| 4                 | 9         |           | _             |              |             | Γ            | T        |                |              |           |          |          | 99       |          |          |          |          |          |          |          |          |              |          | L             | 149      | $\perp$      | 1        | 4             | +-             | 1-       | +-       | +             | +                                      | +  |
| 5                 |           | $\dashv$  |               | П            |             | Τ            | 1        | Т              | T            | Т         | П        |          | 100      |          |          |          | [        |          |          |          |          | LT           |          | L             | 150      | $\perp$      | $\perp$  | L             | L              | L        | <u>ا</u> |               | _ـــــــــــــــــــــــــــــــــــــ | ⊥.   |
|                   | سات       |           | _             |              | <del></del> | _            |          | -              |              |           |          | _        |          |          |          |          |          |          |          |          |          |              |          |               |          |              |          |               |                |          |          |               |  |  |

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